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मानक

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IS 3940 (1989): Ships' - Exhaust ventilators [TED 17: Shipbuilding]



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“Knowledge is such a treasure which cannot be stolen”



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*Indian Standard*  
**SHIPS'-EXHAUST VENTILATORS —  
SPECIFICATION**  
*( First Revision )*

भारतीय मानक  
जलयान के निकास संवातक — विशिष्ट  
( पहला पुनरीक्षण )

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**BUREAU OF INDIAN STANDARDS**  
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG  
NEW DELHI 110002

## **FOREWORD**

**This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards on 19 June 1989, after the draft finalized by the Shipbuilding Sectional Committee had been approved by the Transport Engineering Division Council.**

**Exhaust ventilators of Types A and B, are generally used on board ships for natural exhaust from cabins, toilets, etc.**

**This standard was first published in 1966. This revision has been undertaken to introduce some dimensional changes for Types A and B ventilators.**

**In the preparation of this standard, assistance has been derived from the following standards:**

- a) JIS F 2415 : 1988 Ships wall ventilators. Japanese Industrial Standards Committee; and**
- b) NF J 46-210 : 1951 Manches a air vicié. Association Francaise de Normalisation.**

**AMENDMENT NO. 1   MAY 1995**  
**TO**  
**IS 3940 : 1989. SHIPS'-EXHAUST VENTILATORS —**  
**SPECIFICATION**

*( First Revision )*

( *Page 1, clause 2* ) -- Substitute the following for the existing reference standards:

<i>IS No.</i>	<i>Title</i>
1363 ( Part 1 ) : 1992	Hexagon head bolts, screws and nuts of product grade C: Part 1 Hexagon head bolts ( size range M 5 to M 64 ) ( <i>third revision</i> )
1363 ( Part 2 ) : 1992	Hexagon head bolts, screws and nuts of product grade C: Part 2 Hexagon head bolts ( size range M 5 to M 64 ) ( <i>third revision</i> )
1730 : 1989	Dimensions for steel plates, sheets, strips and flats for general engineering purposes ( <i>second revision</i> )
2062 : 1992	Steel for general structural purposes ( <i>fourth revision</i> )

( *Page 1, clause 4.1, line 4* ) — Substitute 'IS 2062 : 1992' for 'IS 2062 : 1984'.

( *Page 1, clause 4.2, line 2* ) — Substitute 'IS 2062 : 1992' for 'IS 2062 : 1984'.

( *Page 1, clause 4.4, line 2* ) — Substitute 'IS 1363 ( Part 1 ) : 1992' for 'IS 1363 ( Part 1 ) : 1984' and 'IS 1363 ( Part 2 ) : 1992' for 'IS 1363 ( Part 2 ) : 1984'.

( *Page 1, clause 7.2, line 2* ) — Substitute 'IS 1730 : 1989' for 'IS 1730 ( Part 2 ) : 1974'.

( TED 17 )

Reprography Unit, BIS, New Delhi, India

# Indian Standard

## SHIPS'-EXHAUST VENTILATORS — SPECIFICATION

### ( First Revision )

#### 1 SCOPE

**1.1** This standard specifies types, material, dimensions and constructional details of exhaust ventilators for use on board ships.

#### 2 REFERENCES

<i>IS No.</i>	<i>Title</i>
IS 1278 : 1972	Filler rods wires for gas welding ( <i>second revision</i> )
IS 1323 : 1982	Code of practice for oxy-acetylene welding for structural work in mild steel ( <i>second revision</i> )
IS 1363 ( Part 1 ) : 1984	Hexagon head bolts, screws and nuts of product grade C: Part 1 Hexagon head bolts ( size range M 5 to M 36 ) ( <i>second revision</i> )
IS 1363 ( Part 2 ) : 1984	Hexagon head bolts, screws and nuts of product grade C: Part 2 Hexagon head screws ( size range M 5 to M 36 ) ( <i>second revision</i> )
IS 1730 ( Part 2 ) : 1974	Dimensions for steel plate, sheet and strip for structural and general engineering purposes: Part 2 Sheet ( <i>first revision</i> )
IS 2062 : 1984	Weldable structural steel ( <i>third revision</i> )
IS 2102 ( Part 1 ) : 1980	General tolerances for dimensions and form and position: Part 1 General tolerances for linear and angular dimensions ( <i>second revision</i> )
IS 2629 : 1985	Recommended practice for hot-dip galvanizing of iron and steel ( <i>first revision</i> )

#### 3 TYPES

**3.1** Exhaust ventilators are of two types,

namely, Type A and Type B.

#### 4 MATERIALS

**4.1** The main body of the exhaust ventilators of Type A and Type B shall be made out of sheet 1.6 mm thickness. The sheet shall conform to IS 2062 : 1984 and shall be galvanized.

**4.2** The material of the flanges shall conform to IS 2062 : 1984.

**4.3** The welding rods shall conform to IS 1278 : 1972.

**4.4** Bolts and hexagonal nuts shall conform to IS 1363 ( Part 1 ) : 1984 and IS 1363 ( Part 2 ) : 1984 and shall be galvanized.

**4.5** The welding shall be done in accordance with IS 1323 : 1982.

#### 5 GALVANIZING

**5.1** Galvanizing shall be done in conformity with IS 2629 : 1985.

#### 6 DIMENSIONS

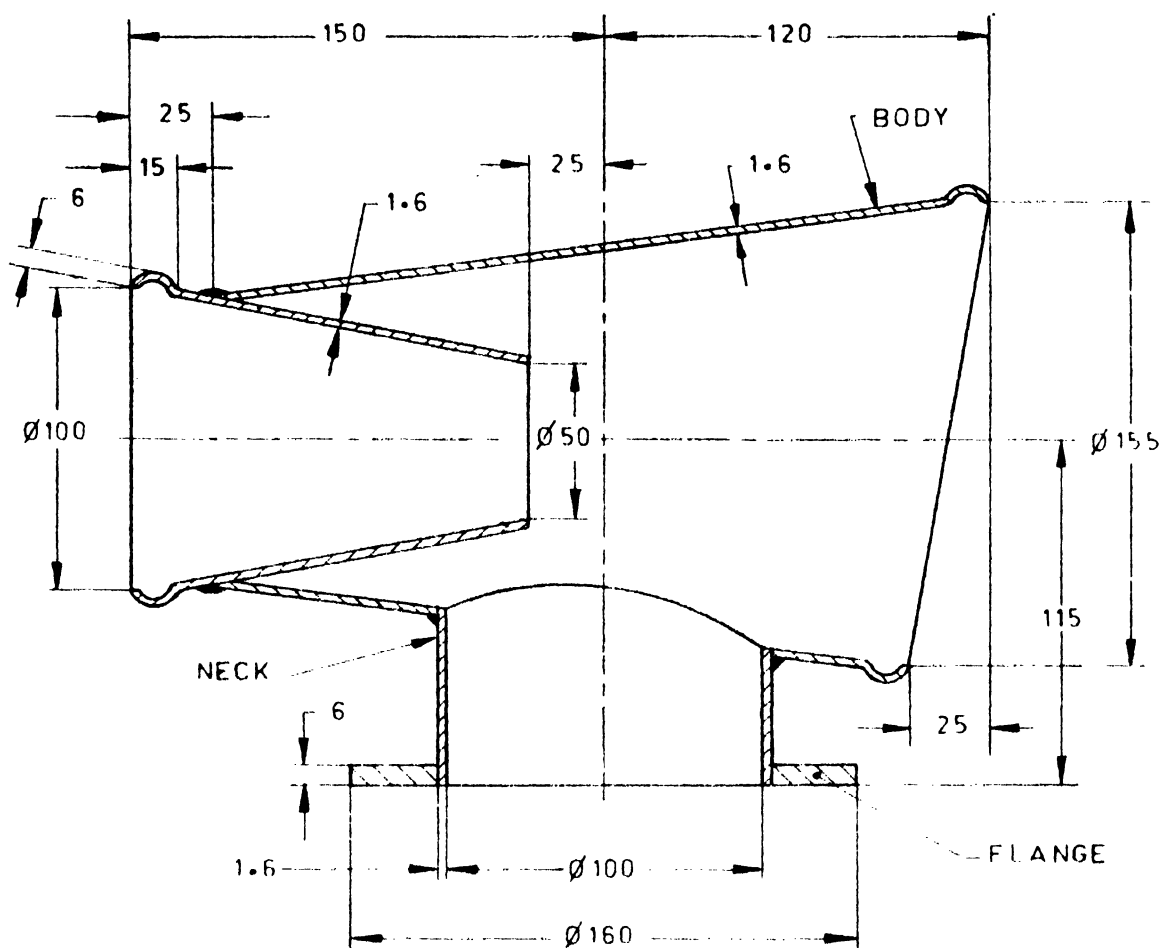
**6.1** The shape and dimensions of Type A and Type B exhaust ventilators shall be as shown in Fig. 1 and 2, respectively.

**6.2** Where possible, approximate proportions of dimensions in terms of nominal size are given as a guide.

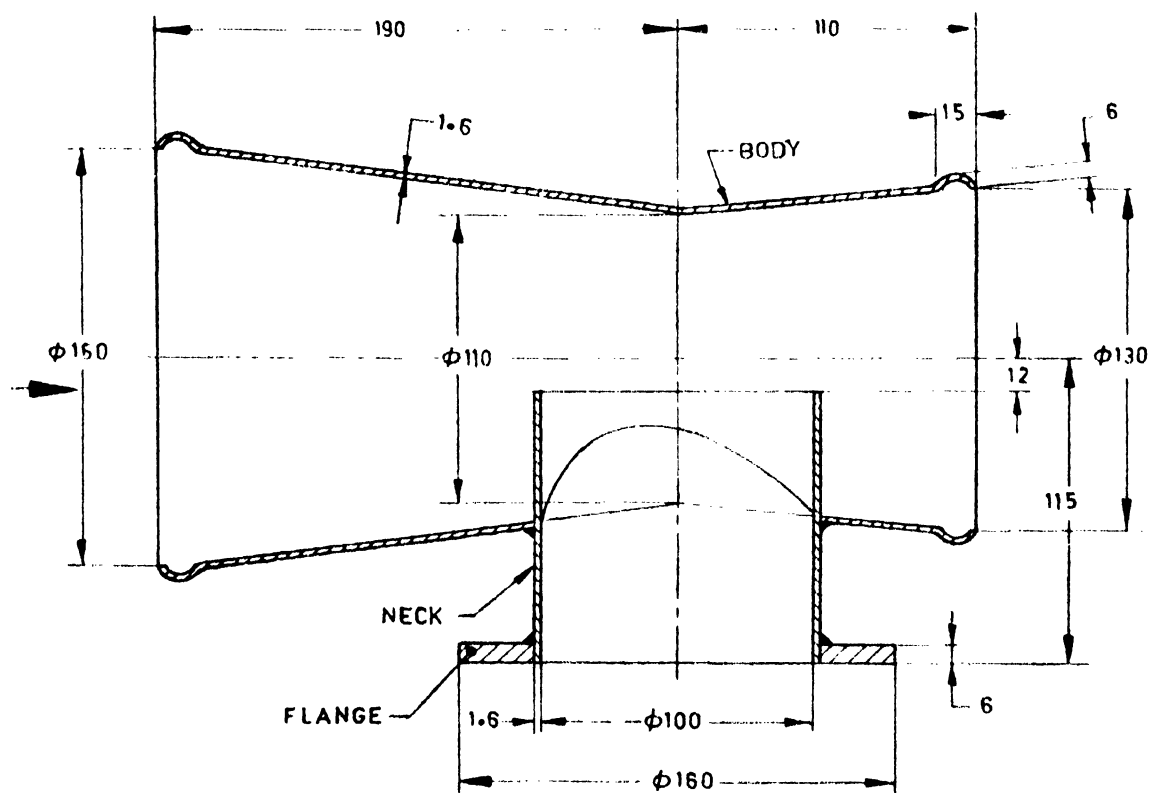
#### 7 TOLERANCES

**7.1** The Tolerances on all dimensions shall be according to the coarse series of IS 2102 ( Part 1 ) : 1980.

**7.2** The tolerances on sheets shall conform to those given in IS 1730 ( Part 2 ) : 1974.



All dimensions in millimetres.  
FIG. 1 EXHAUST VENTILATOR, TYPE A



All dimensions in millimetres.  
FIG. 2 EXHAUST VENTILATOR, TYPE B



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Amend No.	Date of Issue	Text Affected

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